

**RECEIVED**  
**CENTRAL FAX CENTER****SEP 16 2008****Faxed to 571-273-8300 (16 pages) Not for Publication**

**Applicant**                **Linden, Craig L.**    **Application No. 09/856,228**  
**PCT Filed**              **July 31, 2000 (Published 2001)**  
**For**                        **Method and Apparatus for Powered Interactive Physical Displays**  
**Examiner**                **Jamila O. Williams**  
**Group Art Unit**        **3722**

**Mail Stop PATENTS**  
**Commissioner of Patents**

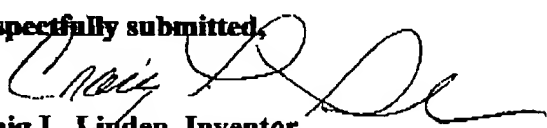
**Dear Sir:**

After filing the patent applications, I wrote several large companies including assignees of the patents listed on my August 3, 2008, Information Disclosure Statement. I wrote to Nokia, Motorola, NEC (via NTT DoCoMo), Sony and others. My November 2, 2006 letter to the PTO (see my file) explained how Nokia began and continued filing related patent applications after my priority dates, and after I met with them on May 9, 2000, and after they reviewed my PCT application.

Today, I am providing a sample of evidence (not for publication) in the hope that the appropriate action will soon be taken by the PTO regarding the many unfairly applied/obtained related Nokia' patent applications and patents. Should the PTO wish evidence regarding my early disclosures to Motorola, NEC, Sony or any of the other firms I contacted, I will be happy to send my files.

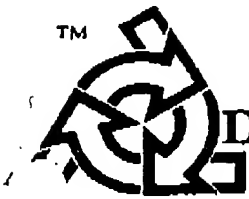
Respectfully submitted,

**Dated: September 16, 2008**

  
**Craig L. Linden, Inventor**  
**1335 Midway Dr.**  
**Alpine, CA 91901**  
**(619) 301-3555**

**Attached: Letters and emails to/from Nokia dated Mar. 11, 24, 29, 31, Apr. 11, 24, 26, June 7, Sept. 5, 7, Nov. 3, 2000; and Jan. 15, Mar. 24, April 11, May 5, 2001.**

SEP 16 2008



**DESIGN SYSTEMS RESEARCH AND DEVELOPMENT, INC.**

Licensor of Micro Cogen Inc.

Main Office: 1335 Midway Drive  
Alpine, California 91901  
Phone (619) 445-3563  
FAX (619) 445-0505

VIA FACSIMILE (011-358 9 652 409)

March 11, 2000

Dr. Jorma Ollila  
Chairman and CEO  
Nokia Corporate Headquarters  
Keilalahdentie 4, Fin-00045

RE: Remote Physical Communications via Mobile Phones


Dear Dr. Ollila:

Please consider entering into a business arrangement with our small company. We would like to work with Nokia to add transceiving of hand squeezes, and other forms of human touch, via mobile handheld devices, etc.

A husband would squeeze his phone and say "I love you darling". His wife would feel the emotion of his words and touch when her handset expands slightly in her hand. She could return the gesture.

Let me know if you would like to make arrangements to discuss working with us.

Sincerely,



Craig Linden

Attachments: five page summary of RealTimeTouch.com & MdTouch.com

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**NOKIA**

Fax

Nokia Mobile Phones

Date: 24 March 2000  
Pages: 1

From: Nina Kuusisto-Suominen  
Address: Keilalahdentie 4, 02150 Espoo, Finland  
Fax: +358 10 505 5742  
Phone: +358 10 505 5741  
Portable phone: +358 40 504 7166  
E-mail: nina.kuusisto@nokia.com

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CENTRAL FAX CENTER

SEP 16 2008

To: Mr. Craig Linden  
Company: Design Systems Research and Development, Inc.  
Fax: +1 619 445 0505

Re: Remote Physical Communications via Mobile Phones

Dear Mr. Linden,

Thank you for your letter of March 11, 2000 addressed to Mr. Jorma Ollila.

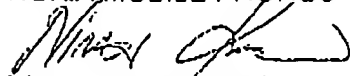
Mr. Ollila has forwarded your letter to Dr. Yrjö Neuvo, Executive Vice President, CTO, Nokia Mobile Phones. I am pleased to confirm you that Dr. Neuvo has forwarded your letter to the experts of this field inside Nokia. Here you can see their contact information:

Mr. Christian Lindholm  
Director  
Nokia Mobile Phones  
P.O.Box 100  
FIN-00045 Nokia Group  
Finland  
Tel. +358 10 5051  
Fax: +358 10 5055 709  
E-mail: christian.lindholm@nokia.com

Mr. Harry Santamäki  
Vice President  
Nokia Venture Organization  
P.O.Box 207  
FIN-00045 Nokia Group  
Finland  
Tel. +358 9 511 21  
Fax: +358 9 5116 2010  
E-mail: harry.santamaki@nokia.com

I am pleased to act as a contact person in Nokia and take care that somebody from Nokia will come back to you soon.

Yours sincerely,  
NOKIA MOBILE PHONES

  
Nina Kuusisto-Suominen

**NOKIA****FAX**

Nokia Ventures Organization

Date 29.3.2000

---

From: Marika Lindroos  
Address: Heikkiläntie 6, 00210 HELSINKI  
Fax: +358 9 511 62910  
Phone: +358 9 511 62 414  
E-mail: Ext-marika.lindroos@.nokia.com

---

To: Craig Linden  
Company: Design Systems Research And Development, Inc.  
Fax: 999 1 619 445 0505

---

REF: Your letter to Mr Jorma Ollila, 11<sup>th</sup> March 00, Remote Physical Communications via Mobile Phones.

Our Organization is a part of Nokia Ventures Organization in Helsinki.  
Our Management team, a group of 6 peoples, would like to meet you here in Helsinki. Is it possible for you to be here on Tuesday 11<sup>th</sup> of April?

Please respond by e-mail : ext-marika.lindroos@nokia.com.

Looking forward to hearing from you.

Kind regards

NOKIA VENTURES ORGANIZATION

  
Marika Lindroos

Re: Remote Physical Communications via Mobile Phones, etc.

**Subject: Re: Remote Physical Communications via Mobile Phones, etc.**

**Date: Fri, 31 Mar 2000 13:31:08 -0800**

**From: Craig Linden <dsrd@flash.net>**

**Organization: Design Systems R&D, Inc.**

**To: EXT-Marika.Lindroos@nokia.com**

Marika,

I am very sorry that I cannot attend the proposed April 11th meeting. I am just starting the RealTimeTouch.com and MDTouch.com companies. The monetary budget is very limited.

When we do meet, I would like to discuss some business arrangement with Nokia, such as a J/V, funding assistance, or a license arrangement.

Regarding the technology to enable touch capable cell phones and other wireless hand-held devices, the pending patents broadly cover various technologies.

I look forward to meeting with your team at their earliest convenience.

Best regards,

Craig Linden

---

Craig Linden <dsrd@flash.net.com>  
Design Systems R&D, Inc.

Re: Remote Physical Communications via Mobile Phones, etc.

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**From: Craig Linden <dsrd@flash.net>**

**Organization: Design Systems R&D, Inc.**

**To: EXT-Marika.Lindroos@nokia.com**

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I look forward to meeting with your team at their earliest convenience.

Best regards,

Craig Linden

---

Craig Linden <dsrd@flash.net.com>  
Design Systems R&D, Inc.

Meeting on May 9th

**Subject: Meeting on May 9th**  
**Date: Tue, 11 Apr 2000 11:57:15 +0300**  
**From: EXT-Marika.Lindroos@nokia.com**  
**To: dsrd@flash.net**

Hello Craig,

Our team will have a meeting 9th May in Menlo Park. Do you know the place?  
Is it far from your office? They could come and visit you at your office, if  
it's not too far away?

Hoping to hearing from you soon.

Kind regards,  
Marika Lindroos  
NVO/New Business Development  
P O Box 206, FIN-00045 NOKIA GROUP  
Tel : +358 40 525 6919

Re: Our May 9th Meeting

**Subject: Re: Our May 9th Meeting**

**Date: Wed, 24 May 2000 08:30:21 -0700**

**From: Craig Linden <dsrd@flash.net>**

**Organization: Design Systems R&D, Inc.**

**To: raimo.backstrom@nokia.com**

**CONFIDENTIAL COMMUNICATION**

Hello Raimo,

Thank you for meeting with me in Mountain View.

Will you continue to be my contact person with Nokia?  
Can you provide an update regarding Nokia's interest?

Best regards,

Craig Linden

Craig Linden <dsrd@flash.net.com> Design Systems R&D, Inc.
---



Re: Our May 9th Meeting

**Subject:** Re: Our May 9th Meeting  
**Date:** Fri, 26 May 2000 06:43:32 -0700  
**From:** Craig Linden <dsrd@flash.net>  
**Organization:** Design Systems R&D, Inc.  
**To:** raimo.backstrom@nokia.com

CONFIDENTIAL COMMUNICATION

Hello Raimo,

Thanks for letting me know what is happening.

There is a way to demonstrate (internally) the positive effect of transceiving "voice coordinated touch". Please consider asking your engineers to reconfigure a few cell phones so the vibration feature may be keyed/sent at will (during conversations).

Although this demonstration uses only the existing vibration feature, it gives the receiving person a more complete emotional/physical feeling of the speaker's message.

Using these modified phones should help convince the Nokia bosses of the value of adding simulated touch to cell phones, etc. Because, even just the "feel" of voice coordinated vibration (which is not as nice as transceiving hand squeezes) should convince them that the "whole is more than the sum of the parts".

Best regards,

Craig Linden

raimo.backstrom@nokia.com wrote:

Hi,

I can be now your contact person within Nokia. It may be that latter on I will focus to interests of only my unit. I will make a report from our meeting and distribute this report inside Nokia to he bosses. Let's see how much interest this report generates to your company.

Sorry that I have not had enough time to make the report. We are currently really busy in our unit. Anyway I will do it soon.

Regards,  
Raimo Bäckström

-----Original Message-----

**From:** EXT Craig Linden [<mailto:dsrd@flash.net>]  
**Sent:** 24 May, 2000 18:30

Co-operation

**Subject: Co-operation**

**Date: Wed, 7 Jun 2000 13:01:09 +0300**

**From: raimo.backstrom@nokia.com**

**To: dsrd@flash.net**

**CC: johanna.fraki@nokia.com**

Hi Craig,

We have come to the conclusion that at this point of time there is no possibility of co-operation between Nokia and Design Systems R&D, Inc.

The next point to re-evaluate the situation is when the patents, that Design Systems R&D has applied, are approved.

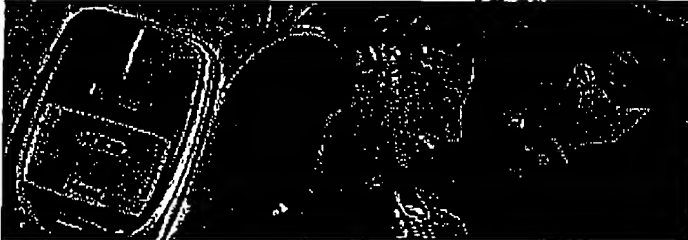
Regards,  
Raimo Bäckström

Nokia 3310

wysiwyg: 16:http://www.nokia.com/phones/3310/main\_feat.html

**NOKIA**  
CONNECTING PEOPLE[Home](#) : [Phones](#) : [Nokia 3310](#) : Main Features

Nokia 3310

**NOKIA**  
**3310****Main Features****Advanced messaging**

Have more fun with text messages on the Nokia 3310. The cool new chat feature lets you talk using messages with your friends and family, while keeping track of the whole conversation. On the other hand, if you have a little bit more to say, the Nokia 3310 makes it easy by automatically connecting up to three text messages - giving you plenty of space to get the message across. To see a demo of the chat feature, check out our [Chat & Messaging section](#). >>

**Say it with a smiley :-)**

Add a personal touch to your messages with a smiley. The Nokia 3310 has a store of built-in smiley templates to help you put some passion in your messages.

**Make it personal**

You decide what to make of the Nokia 3310. As well as exchangeable Xpress-on™ covers, the phone allows you to install your own screensavers, picture messages, operator logos and caller group profiles. Read more about making the Nokia 3310 [truly yours](#). >>

**Feel the power**

Mobile gaming is simply electrifying with the Nokia 3310. The new vibra feature makes the phone vibrate at critical moments in gameplay - so you'll know when you've been blasted by aliens in the cool Space Impact game, or when you hit the walls in Snake III. Of course, if you prefer more sedate action, there is always Bantumi and Pairs II.

**Stay on time, all the time**

With the reminder function of the Nokia 3310 you can save up to ten reminders so you will always know where you need to be and when to be there. You can move

**Main page****Main features**[Chat & Messaging](#)[Personalisation](#)**Accessories****Full Specifications***Sept, 2000***Related topics:**[Photo Archive](#)Search [www.nokia.com](#):

Search

Navigate [www.nokia.com](#):

RealTimeTouch.com &amp; The Nokia 3310

**Subject: RealTimeTouch.com & The Nokia 3310****Date: Thu, 07 Sep 2000 14:12:38 -0700****From: Craig Linden <dsrd@flash.net>****To: raimo.backstrom@nokia.com**

Hello Raimo,

I just read about the Nokia 3310 and its new vibra feature for game play. Nokia needs to be aware that vibration enhancement for cell phones, during single or multi-player games, is clearly covered by my international patent application.

Because you are my contact person with Nokia, please print this this e-mail notice and deliver it to a corporate officer with Nokia.

As always, I hope our firms can work together regarding a license or other arrangement for this and perhaps other cell phone applications of RealTimeTouch.com's technologies.

I look forward to hearing from you.

Best regards,

Craig Linden

raimo.backstrom@nokia.com wrote:

> Hi Craig,  
>  
> Regrettably the situation has not been changed since the last mail I sent to  
> you. In this situation we are able to review your ideas only on a  
> non-confidential basis. This means that either the patent application must  
> be published or if you do not publish the patent application then you must  
> have given signed confirmation that the contents of the application are  
> non-confidential.  
>  
> Regards,  
> Raimo Backstrom  
>  
> --- Original Message ---  
> From: EXT Craig Linden [mailto:dsrd@flash.net]  
> Sent: 06 September, 2000 7:41  
> To: raimo.backstrom@nokia.com  
> Subject: RealTimeTouch  
>  
> Hello Raimo,  
>  
> Did you receive my message below?  
>  
> Raimo,  
>  
> Thanks for the compliment on our new Web page.  
> I hope we can do some business in the future.  
> Again, I will be happy to forward the July 2000  
> international patent application for Nokia's  
> review. I am still willing to discuss granting  
> Nokia an exclusive global license. If Nokia waits

**DESIGN SYSTEMS RESEARCH AND DEVELOPMENT, INC.**

Licensor of Micro Cogen Inc.

VIA FACSIMILE (011-358 9 652 409)

November 3, 2000

Dr. Jorma Ollila  
Chairman and CEO  
Nokia Corporate Headquarters  
Keilalahdentie 4, Fin-00045

Main Office: 1335 Midway Drive  
Alpine, California 91901  
Phone (619) 445-3563  
FAX (619) 445-0505

Dear Dr. Ollila:

This letter concerns Nokia's use of vibration for game playing on Nokia phones. As the founder of a small R&D company, I wrote to you in March of this year and met with a Nokia team from Finland in Palo Alto in May.


Prior to the meeting I asked the Nokia representative whether or not Nokia was, in any way, already working on physically interactive phones. He assured me that I had been the person to introduce the concept to Nokia.

Some time went by and I had not heard from Nokia. I felt that perhaps Nokia felt that manufacturing new interactive phones would be prohibitively expensive. In early June, I wrote suggesting your engineers reprogram a few phones so that vibration feature could be used at will. I suggested this would be an easy way to demonstrate the excitement of physically interactive phones.

Shortly later, I received a letter stating that Nokia was not interested in working with us. Then I read the news about the Nokia 3310 and 3390 phones that use the vibration feature to enhance game play. I wrote Nokia and received an email stating the matter had been given to Nokia's legal department.

I am trying very hard to get [www.RealTimeTouch.com](http://www.RealTimeTouch.com) started. Nokia seems to be telling me they don't think that I will be able to get a patent for the novel mobile phone use of vibration for enhancing game play and/or communications. It will take years to know but, in the meantime, Nokia's actions may destroy my company and my ability to support my family. I met with the Nokia team in good faith, believing that if Nokia was interested, we would negotiate a reasonable license or create some type of business relationship. Instead, the unlicensed use of the game vibra feature has threatened my chances of obtaining equity investment and dampens the interest from prospective licensees. Any help from you to resolve this situation as quickly as possible will be greatly appreciated. I remain very interested working with Nokia.

Sincerely,



Craig Linden, CEO  
[Linden@RealTimeTouch.com](mailto:Linden@RealTimeTouch.com)

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**DESIGN SYSTEMS RESEARCH AND DEVELOPMENT, INC.**

Licensor of Micro Cogen Inc.

Main Office: 1335 Midway Drive  
Alpine, California 91901  
Phone (619) 445-3563  
FAX (619) 445-0505

VIA FACSIMILE (011-358-9- 1807-496)

January 15, 2001

Mika U. Anttila, Esq.  
Director of IPR  
Nokia Corporation  
Finland

Dear Mr. Anttila:

This letter confirms that the PCT patent application, entitled "Method and Apparatus for Powered Interactive Physical Displays", was priority mailed to you last week. Please let me know if you do not receive it within a few days. Along with the application, I included the PCT application documents, the PCT responses thus far and the international search report.

You will notice that the application is broad, so as to cover as much territory as possible, given our lack of funding. I hope to turn over the prosecution of the application to a law firm as soon as our finances allow. I have filed additional U.S. provision patents (other than the three listed on the PCT application) and several document disclosures covering areas that may be of interest to Nokia. We remain interested in entering a confidential relationship so that we may be more open about our work.

Rather than only considering the vibration enhancement of game play, it is my hope that Nokia will consider the benefit of the bigger picture that can be enjoyed by our firms creating a licensing relationship. For instance, I have long felt that mobile device users need distinctive vibration schemes (and rings) for identifying important calls, etc. This is the subject of one of my later provision patents and is disclosed under our non-confidential agreement.

In any case it is my intention to negotiate very reasonable licenses, while looking forward to long term mutually profitable relationships.

Sincerely,

  
Craig Linden

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RE: RealTimeTouch

**Subject: RE: RealTimeTouch****Date: Wed, 11 Apr 2001 09:40:22 +0300****From: mika.u.anttila@nokia.com****To: Linden@realtimetouch.com**

Hi Graig,

sorry for the delay in my reply.

We are considering the possible licensing of your patent applications.

I'll have to check what is the current situation with the evaluation work.

Best regards,

Mika U. Anttila

-----Original Message-----  
From: ext Craig Linden (mailto:Linden@RealTimeTouch.com)  
Sent: Wednesday, April 11, 2001 4:17 AM  
To: mika.u.anttila@nokia.com  
Subject: RE: RealTimeTouch

Hi Mika,

Is this you you sent to the message below from  
April 10?

Craig

Hi to Mika.

Is this you you sent to the message below from  
April 10?

Craig

Craig Linden

**NOKIA**

1 (1)

Matti Kauppi  
P.O. Box 226, FIN-00045 NOKIA GROUP  
Email: idea@nokia.com

08.05.2001

Craig Linden  
Design Systems R&D, Inc.  
1335 Midway Drive  
Alpine, California 91901  
USA

Dear Mr. Linden,

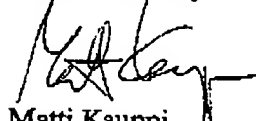
Thank you for your telefax and a copy of your patent application.

We have now reviewed the idea and found that it is not of interest to Nokia. I am hereby returning the material without keeping any copies.

We thank you for giving us the opportunity to review your idea and patent application.

Thank you for your interest in Nokia.

Yours Sincerely,



Matti Kauppi  
Legal Counsel, IPR